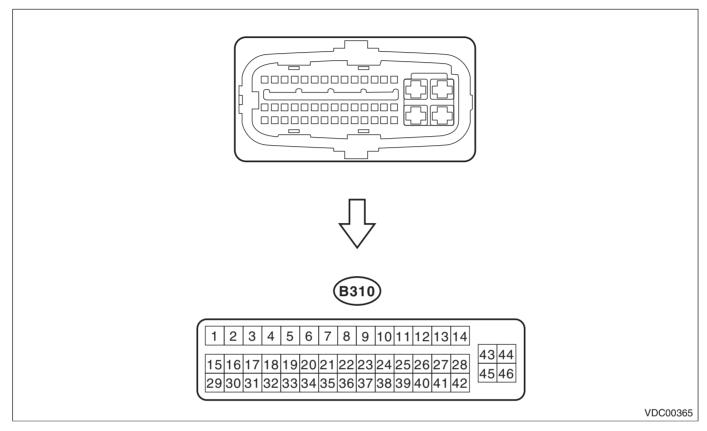
5. Control Module I/O Signal

A: ELECTRICAL SPECIFICATION

1. VDC CONTROL MODULE IDENTIFICATION MARK W2



NOTE:

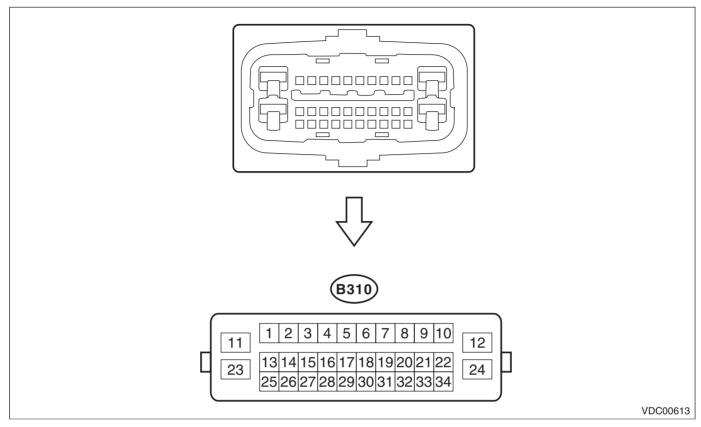
- Terminal numbers in VDCCM&H/U connector are shown in the figure.
- When the connector is removed from VDCCM&H/U, the ABS warning light, EBD warning light, VDC warning light and TCS OFF indicator light illuminate.

Control Module I/O Signal

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Description			Terminal No.	Input/Output signal Measured value and measuring conditions
			(+) — (–)	3
Power supply			1 — 43	10 — 15 V when the ignition switch is ON.
ABS wheel speed sensor	Front LH wheel	Power supply	27 — 43	8 — 15 V
		Signal	41	5 — 17 mA: Rectangle waveform
	Front RH wheel	Power supply	42 — 43	8 — 15 V
		Signal	28	5 — 17 mA: Rectangle waveform
	Rear LH wheel	Power supply	25 — 43	8 — 15 V
		Signal	39	5 — 17 mA: Rectangle waveform
	Rear RH wheel	Power supply	40 — 43	8 — 15 V
		Signal	26	5 — 17 mA: Rectangle waveform
Yaw rate & lateral G sensor Steering angle sensor			34 — 20	Serial communication
CAN communication line (+)			34	Serial communication
CAN communication line (–)			20	Serial communication
Valve relay power supply			44 — 43	10 — 15 V always.
Motor power supply			45 — 46	10 — 15 V when the motor is ON.
ABS warning light			16 — 43	After turning the ignition switch to ON, 10 — 15 V during 1.5 seconds and less than 1.5 V after 1.5 seconds passed.
Brake warning light (EBD warning light)			3 — 43	After turning the ignition switch to ON, 10 — 15 V during 1.5 seconds and less than 1.5 V after 1.5 seconds passed.
Stop light switch			18 — 43	Less than 1.5 V when the stop light is OFF; otherwise, 10 — 15 V when the stop light is ON.
Subaru Select Monitor			32 — 43	$0 \longleftrightarrow 12 \text{ V pulse (in communication)}$
Vehicle speed output signal			33	Model without vehicle speed dependent wiper: $0 \longleftrightarrow 5 \text{ V}$ pulse Model without vehicle speed dependent wiper: $0 \longleftrightarrow 12 \text{ V}$ pulse
Ground			43	_
Relay box	Relay power supply		2 — 43	10 — 15 V when the ignition switch is ON.
	Motor relay drive		30 — 43	After turning the ignition switch to ON: 10 — 15 V, during the motor is operating: 1.5 V.
	Fail safe relay drive			When the ignition switch is ON, less than 1.5 V.

2. VDC CONTROL MODULE IDENTIFICATION MARK W3



NOTE:

- Terminal numbers in VDCCM&H/U connector are shown in the figure.
- When the connector is removed from VDCCM&H/U, the ABS warning light, EBD warning light, VDC warning light and TCS OFF indicator light illuminate.

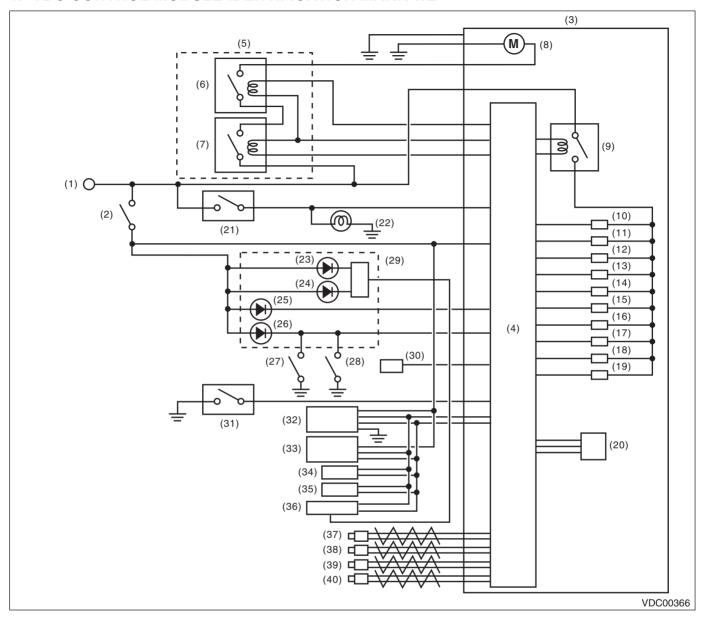
Control Module I/O Signal

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Description			Terminal	Input/Output signal
			No. (+) — (–)	Measured value and measuring conditions
Power supply			34 — 11	10 — 15 V when the ignition switch is ON.
ABS wheel speed sensor	Front LH wheel	Power supply	18 — 11	8 — 15 V
		Signal	17	5 — 17 mA: Rectangle waveform
	Front RH wheel	Power supply	6 — 11	8 — 15 V
		Signal	5	5 — 17 mA: Rectangle waveform
	Rear LH wheel	Power supply	4 — 11	8 — 15 V
		Signal	3	5 — 17 mA: Rectangle waveform
	Rear RH wheel	Power supply	16 — 11	8 — 15 V
		Signal	15	5 — 17 mA: Rectangle waveform
Yaw rate & lateral G sensor			25 — 13	Serial communication
Steering angle sensor				
CAN communication line (+)			25	Serial communication
CAN communication line (-)			13	Serial communication
Valve relay power supply			12 — 11	10 — 15 V always.
Motor power supply			24 — 23	10 — 15 V when the motor is ON.
ABS warning light			8 — 11	After turning the ignition switch to ON, 10 — 15 V during 1.5 seconds and less than 1.5 V after 1.5 seconds passed.
Brake warning light (EBD warning light)			7 — 11	After turning the ignition switch to ON, 10 — 15 V during 1.5 seconds and less than 1.5 V after 1.5 seconds passed.
Stop light switch			1 — 11	Less than 1.5 V when the stop light is OFF; otherwise, 10 — 15 V when the stop light is ON.
Subaru Select Monitor			19 — 11	0 ←→ 12 V pulse (in communication)
Vehicle speed output signal			10	Model without vehicle speed dependent wiper: $0 \longleftrightarrow 5 \text{ V}$ pulse Model without vehicle speed dependent wiper: $0 \longleftrightarrow 12 \text{ V}$ pulse
Ground			11	_

B: WIRING DIAGRAM

1. VDC CONTROL MODULE IDENTIFICATION MARK W2

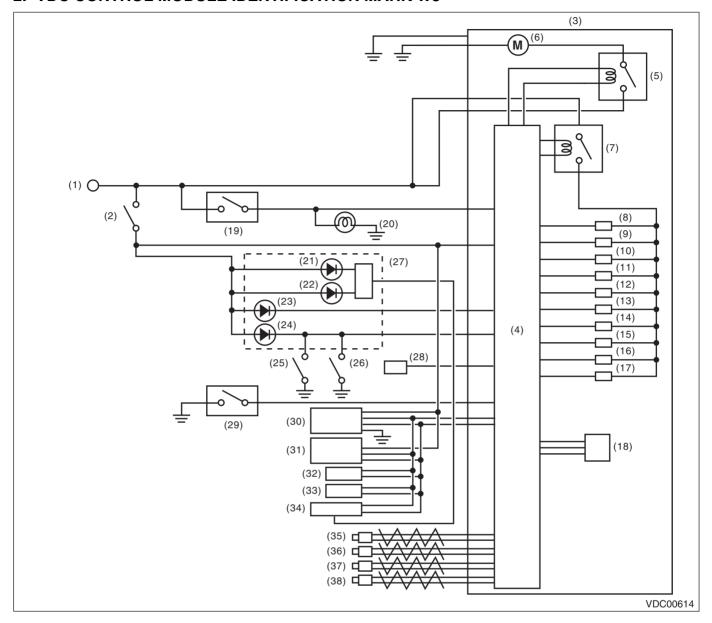


- (1) Battery
- (2) Ignition switch
- (3) VDC control module & hydraulic control unit (VDCCM&H/U)
- (4) VDC control module
- (5) Relay box
- (6) Motor relay
- (7) Fail safe relay
- (8) Motor
- (9) Valve relay
- (10) Front inlet solenoid valve LH
- (11) Front outlet solenoid valve LH
- (12) Front inlet solenoid valve RH
- (13) Front outlet solenoid valve RH

- (14) Rear inlet solenoid valve LH
- (15) Rear outlet solenoid valve LH
- (16) Rear inlet solenoid valve RH
- (17) Rear outlet solenoid valve RH
- (18) Linear valve 1
- (19) Linear valve 2
- (20) Pressure sensor
- (21) Stop light switch
- (22) Stop light
- (23) VDC indicator light
- (24) VDC warning light and TCS OFF indicator light
- (25) ABS warning light
- (26) Brake warning light

- (27) Parking brake switch
- (28) Brake fluid level switch
- (29) Combination meter
- (30) Data link connector
- (31) TCS OFF switch
- (32) Steering angle sensor
- (33) Yaw rate & lateral G sensor
- (34) Transmission control module (TCM)
- (35) Engine control module (ECM)
- (36) Body integrated unit
- (37) Front ABS wheel speed sensor LH
- (38) Front ABS wheel speed sensor RH
- (39) Rear ABS wheel speed sensor LH
- (40) Rear ABS wheel speed sensor RH

2. VDC CONTROL MODULE IDENTIFICATION MARK W3



- (1) Battery
- (2) Ignition switch
- (3) VDC control module & hydraulic control unit (VDCCM&H/U)
- (4) VDC control module
- (5) Motor relay
- (6) Motor
- (7) Valve relay
- (8) Front inlet solenoid valve LH
- (9) Front outlet solenoid valve LH
- (10) Front inlet solenoid valve RH
- (11) Front outlet solenoid valve RH
- (12) Rear inlet solenoid valve LH
- (13) Rear outlet solenoid valve LH

- (14) Rear inlet solenoid valve RH
- (15) Rear outlet solenoid valve RH
- (16) Linear valve 1
- (17) Linear valve 2
- (18) Pressure sensor
- (19) Stop light switch
- (20) Stop light
- (21) VDC indicator light
- (22) VDC warning light and TCS OFF indicator light
- (23) ABS warning light
- (24) Brake warning light
- (25) Parking brake switch

- (26) Brake fluid level switch
- (27) Combination meter
- (28) Data link connector
- (29) TCS OFF switch
- (30) Steering angle sensor
- (31) Yaw rate & lateral G sensor
- (32) Transmission control module (TCM)
- (33) Engine control module (ECM)
- (34) Body integrated unit
- (35) Front ABS wheel speed sensor LH
- (36) Front ABS wheel speed sensor RH
- (37) Rear ABS wheel speed sensor LH
- (38) Rear ABS wheel speed sensor RH